

Reading  
Data From  
Mailbox

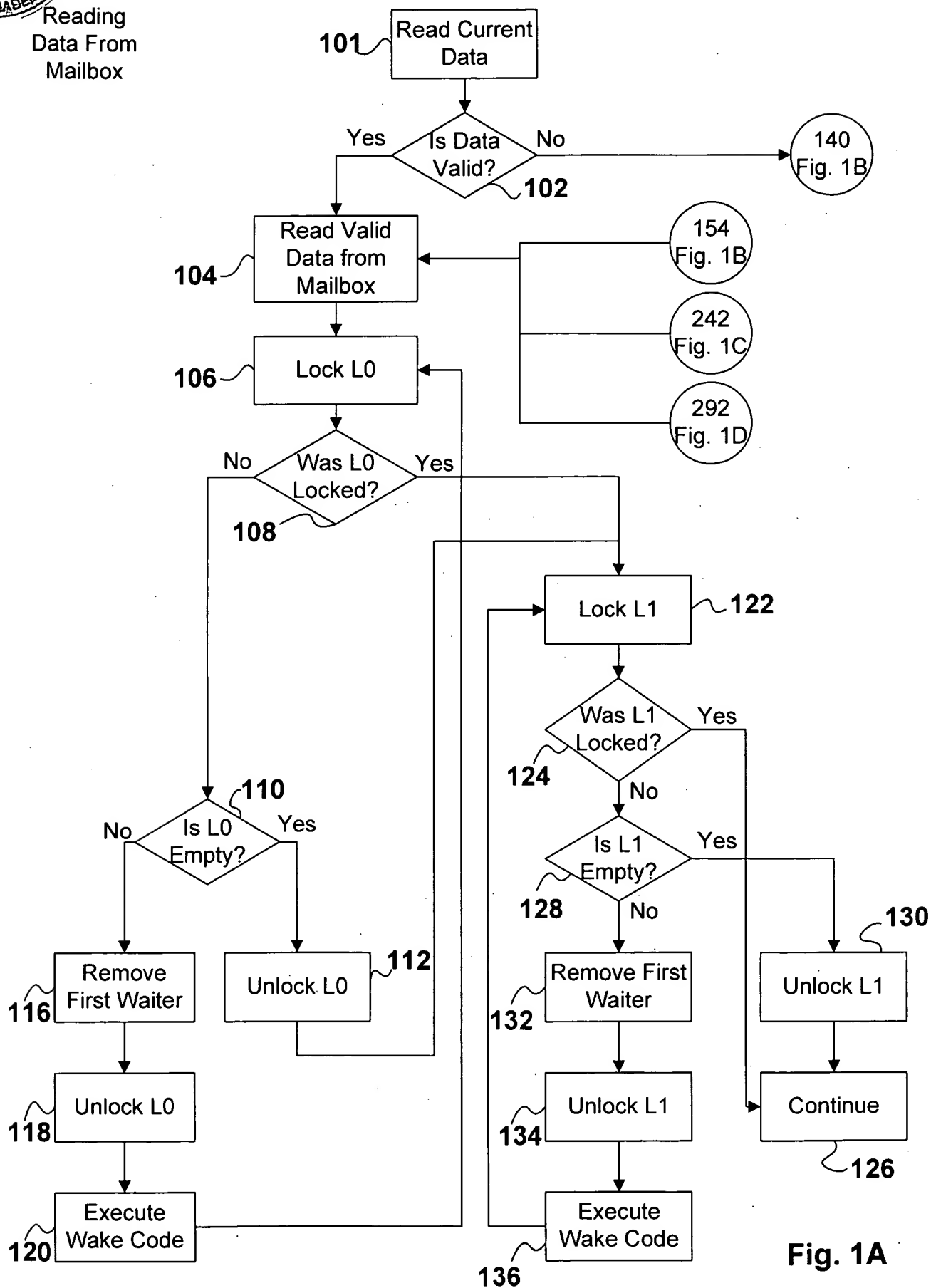


Fig. 1A

```

graph TD
    102((102  
Fig. 1A)) -- No --> 140[Lock L0]
    140 --> 142{Was L0  
Locked?}
    142 -- No --> 144[Place This  
Task on L0]
    144 --> 146[Unlock L0]
    146 --> 148[Check for Valid  
Data]
    148 --> 150{Is Data  
Valid?}
    150 -- Yes --> 156[Lock L0]
    150 -- No --> 152[Suspend]
    152 --> 154[Get Activated]
    154 --> 104((104  
Fig. 1A))
    156 --> 158{Was L0  
Locked?}
    158 -- No --> 202((202  
Fig. 1C))
    158 -- Yes --> 152
    156 --> 142
    142 -- Yes --> 180[Lock L1]
    180 --> 182{Was L1  
Locked?}
    182 -- Yes --> 140
    182 -- No --> 184[Place This  
Task on L1]
    184 --> 186[Unlock L1]
    186 --> 188[Check for Valid  
Data]
    188 --> 190{Is Data  
Valid?}
    190 -- No --> 196[Unlock L1]
    196 --> 158
    190 -- Yes --> 192[Lock L1]
    192 --> 194{Was L1  
Locked?}
    194 -- No --> 252((252  
Fig. 1D))
    194 -- Yes --> 182
  
```

**Fig. 1B**

Reading  
Data From  
Mailbox

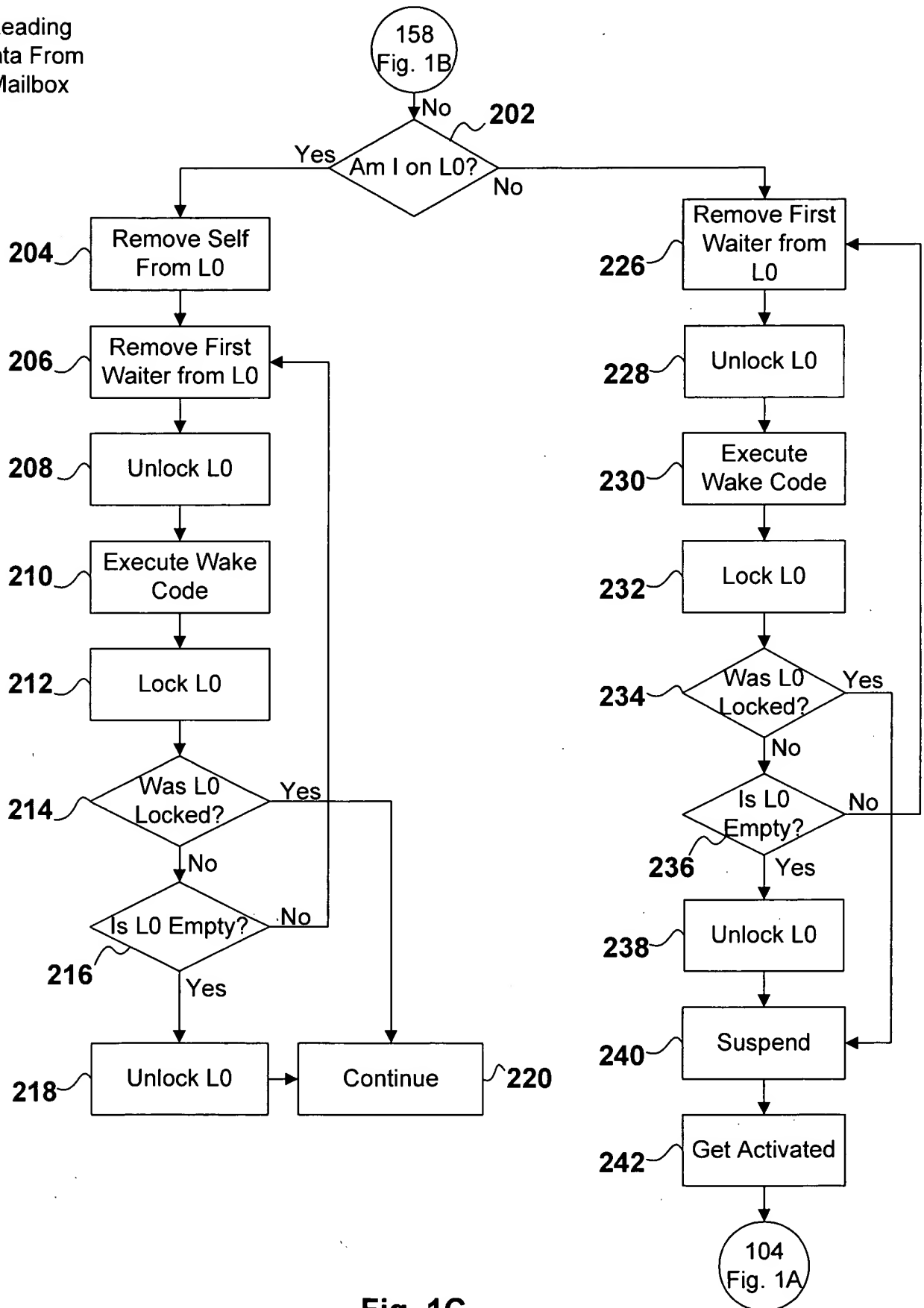


Fig. 1C

Reading  
Data From  
Mailbox

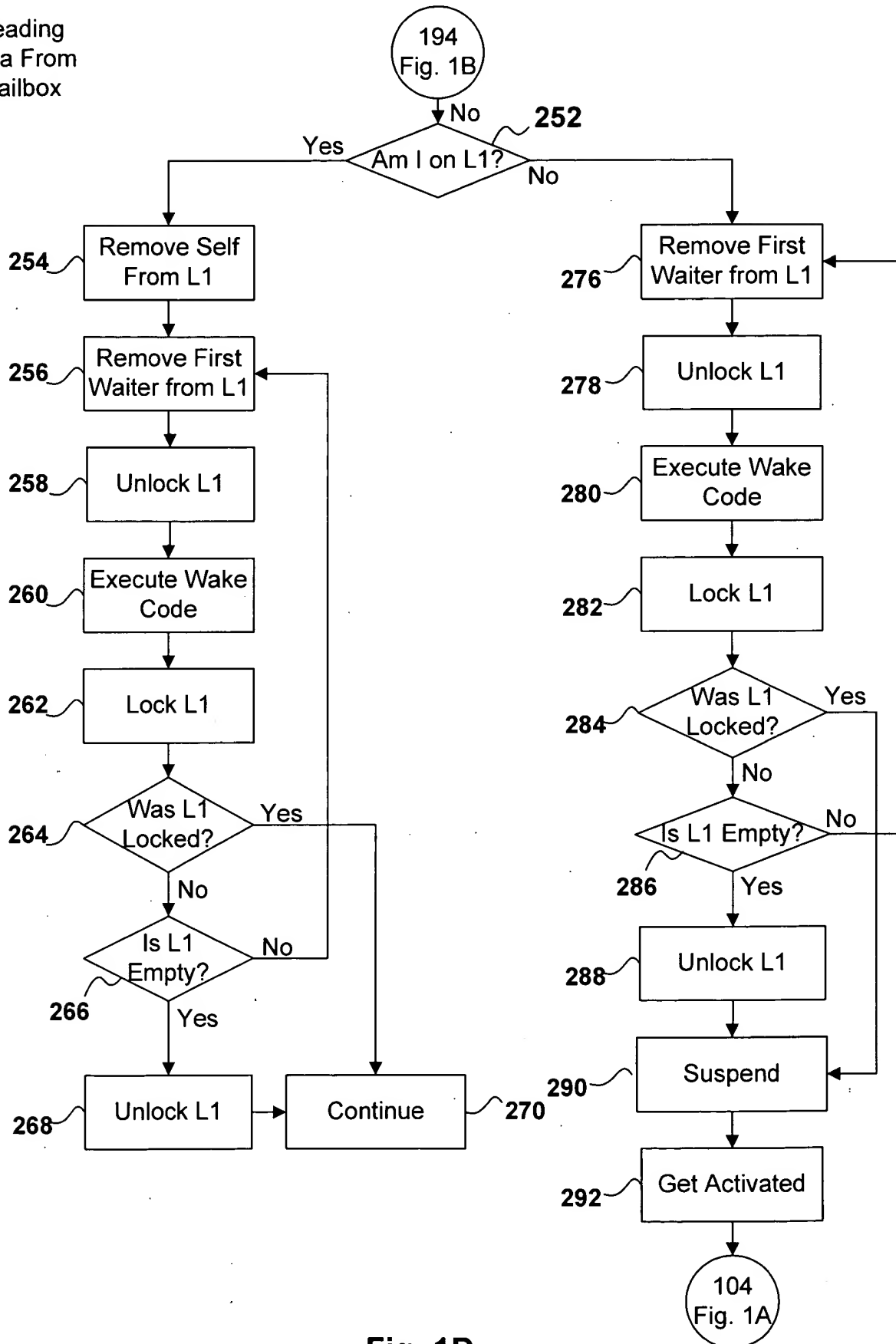


Fig. 1D

Placing Data  
in Mailbox

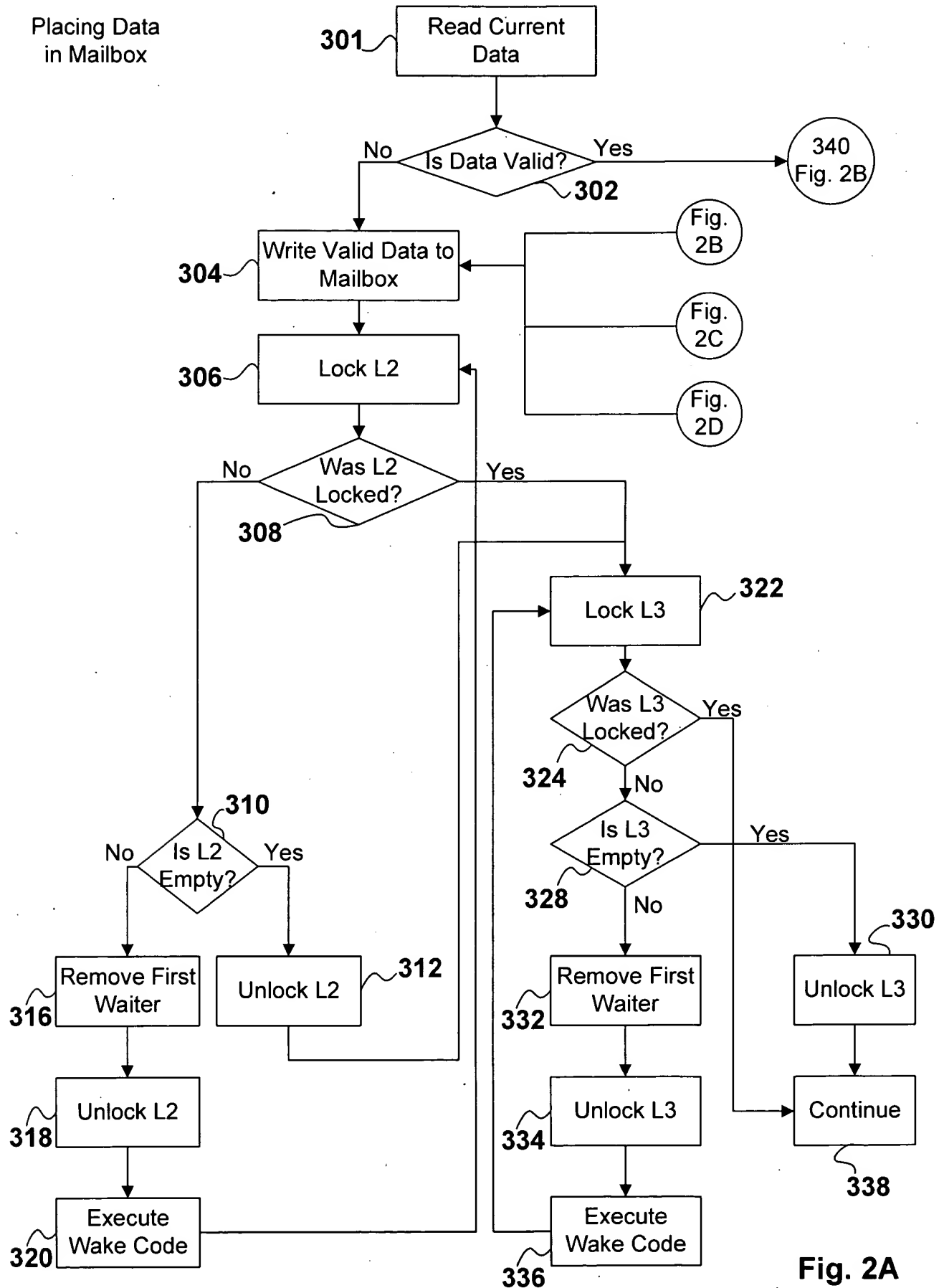
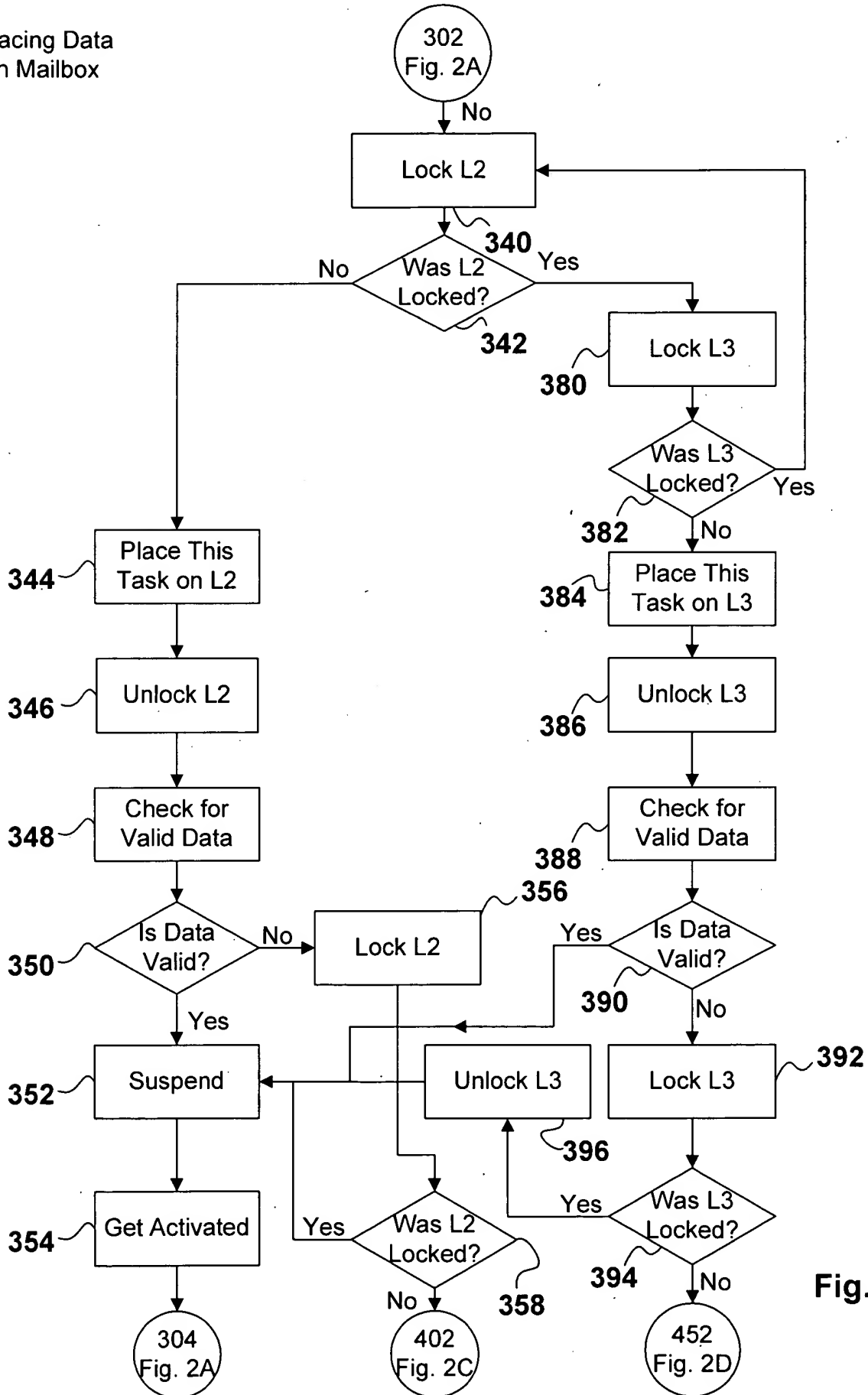
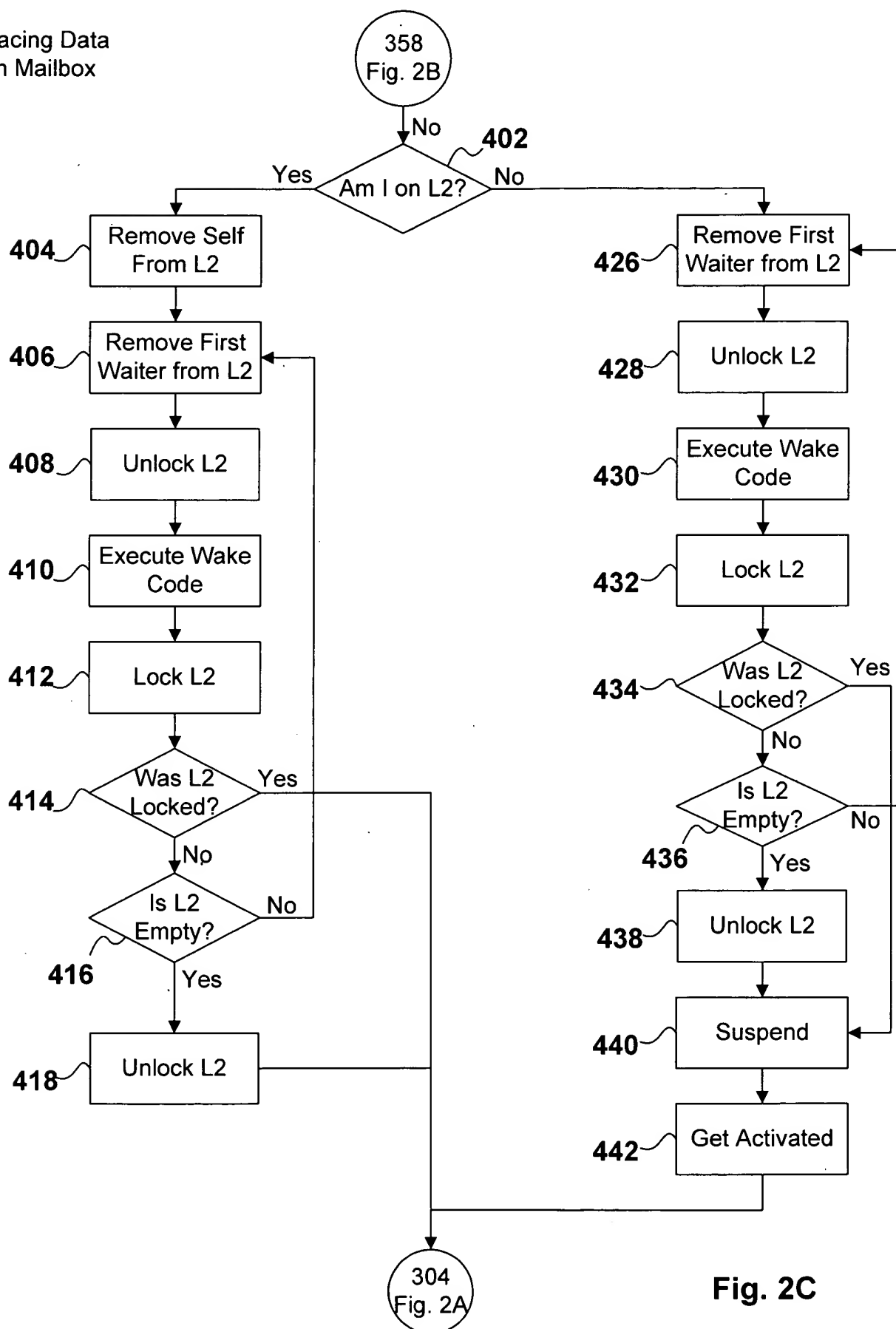


Fig. 2A

Placing Data  
in Mailbox



Placing Data  
in Mailbox



Placing Data  
in Mailbox

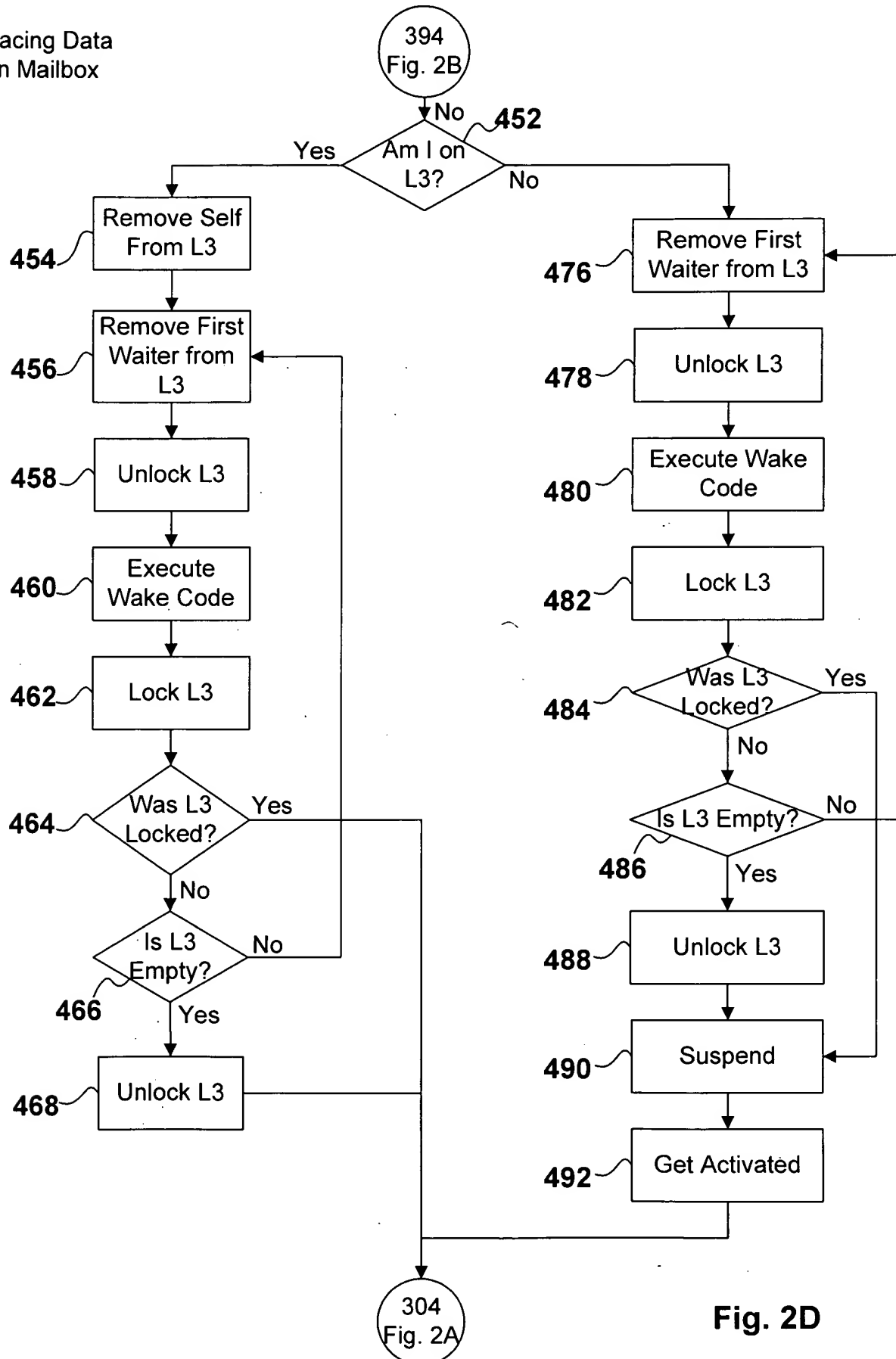


Fig. 2D



Fig. 3

